

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647338

Luminaire Tested: **GALN-SA3D-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9996.6 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

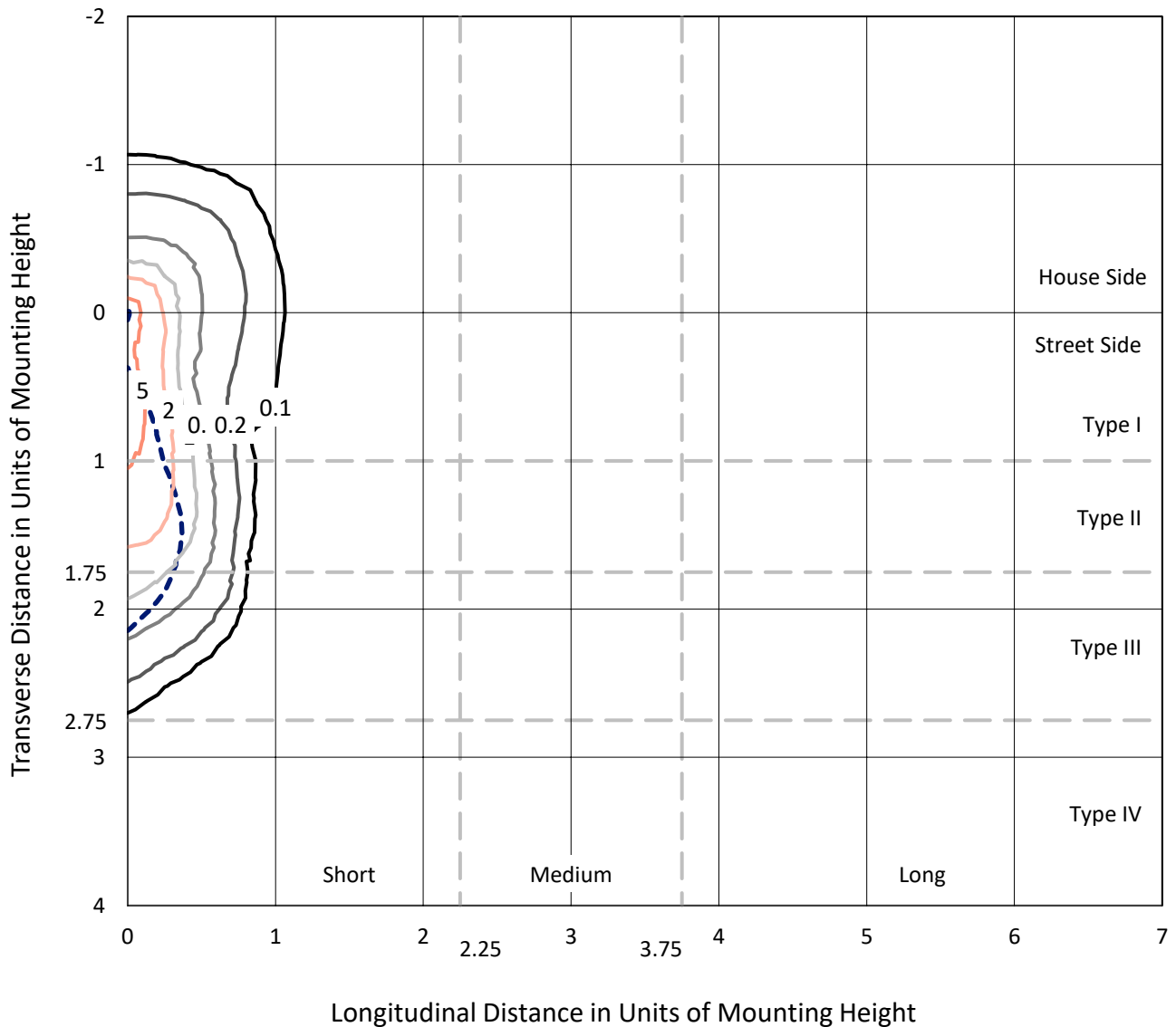




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Iso-Footcandle Lines of Horizontal Illumination

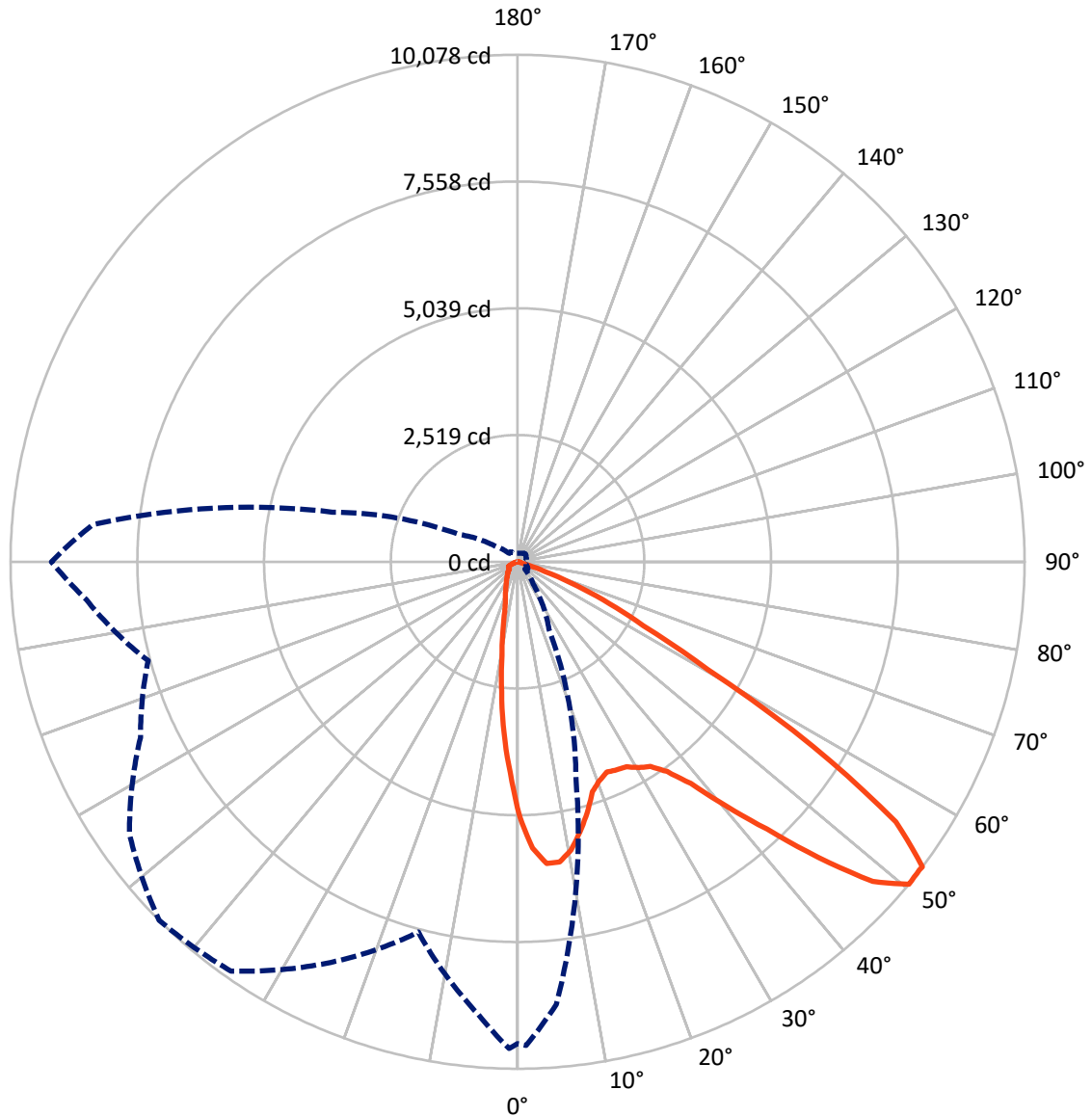
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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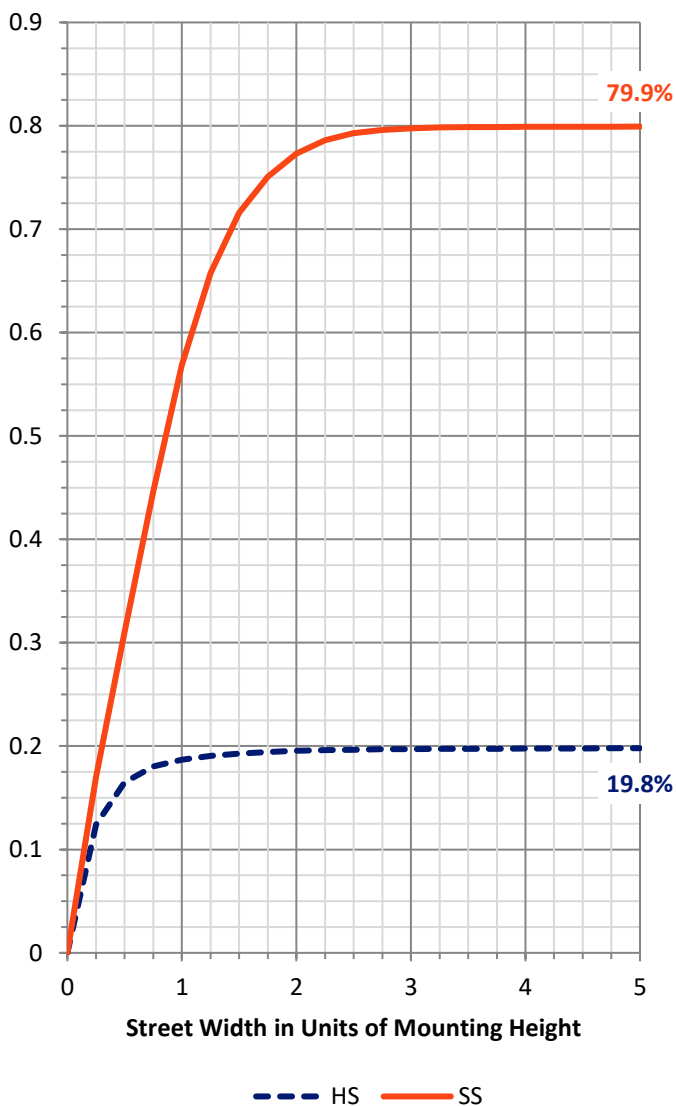
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2002.3	0.0	2002.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	7994.3	0.0	7994.3
	% Fixture	80.0	0.0	80.0
Total	Lumens	9996.6	0.0	9996.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.5	3.7
10°-20°	734.4	7.3
20°-30°	1103.3	11.0
30°-40°	1656.0	16.6
40°-50°	2327.4	23.3
50°-60°	2510.5	25.1
60°-70°	1165.6	11.7
70°-80°	109.7	1.1
80°-90°	20.2	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9996.6	100.0
0°-180°	9996.6	100.0

Coefficient of Utilization



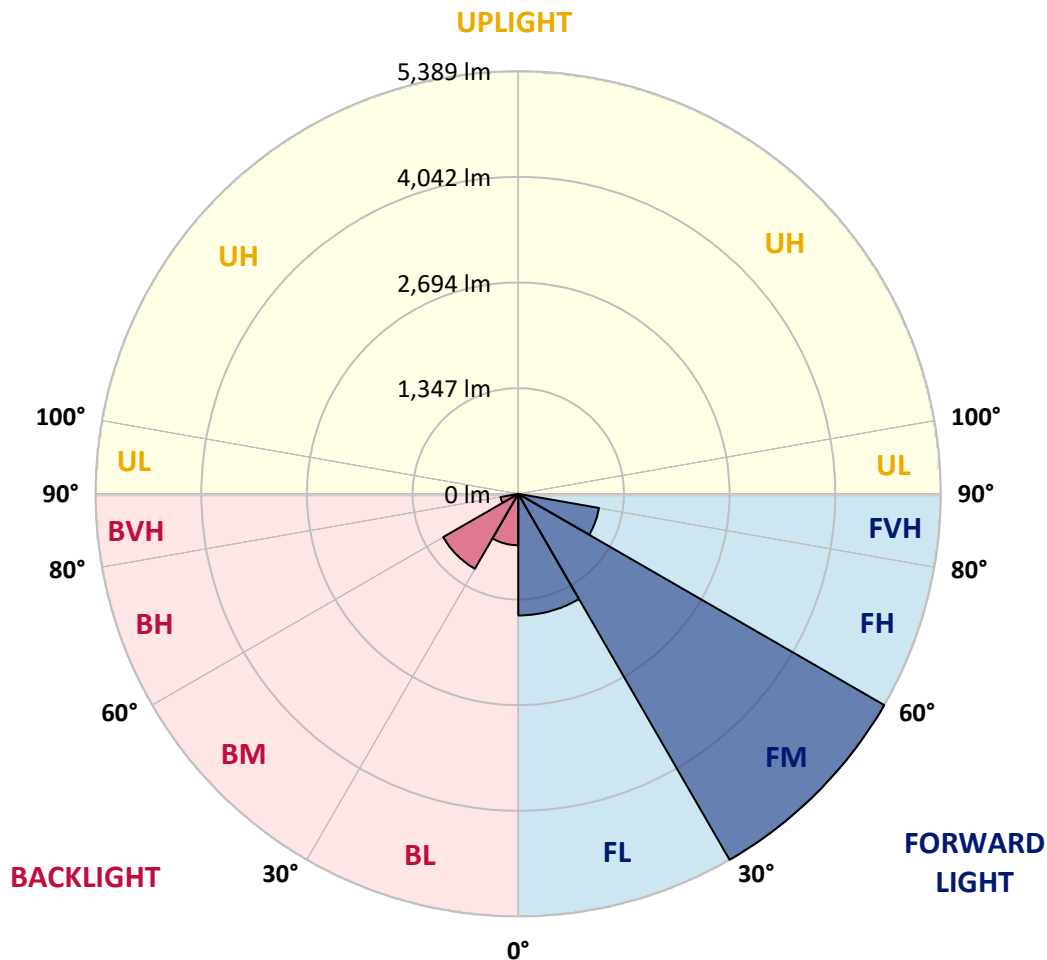
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.9	15.5			
FM (30°-60°)	5388.9	53.9			
FH (60°-80°)	1045.4	10.5			G1/1800
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	656.3	6.6	B2/1000		
BM (30°-60°)	1105.0	11.1	B2/2500		
BH (60°-80°)	229.9	2.3	B1/500		G1/500
BVH (80°-90°)	11.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5
2.5°	5269.8	5188.5	5085.4	5000.1	4873.2	4617.3	4547.9	4464.6	4395.1	4302.0	4171.0
5°	4791.9	4766.0	4718.4	4397.2	4165.1	3855.7	3601.8	3494.7	3353.9	3238.9	3155.6
7.5°	4426.9	4323.8	4173.0	3849.8	3478.9	3147.7	2866.0	2701.4	2514.9	2451.5	2338.4
10°	4036.2	4060.0	3837.9	3383.7	2935.4	2667.7	2493.1	2334.4	2165.9	2054.7	1894.2
12.5°	3911.2	3833.9	3663.3	3102.0	2719.2	2469.3	2257.1	2060.7	1882.3	1703.7	1549.0
15°	3992.5	3873.5	3635.5	3042.5	2552.6	2241.2	1975.4	1709.7	1545.0	1316.9	1156.3
17.5°	4284.1	4188.9	3869.6	3106.0	2467.3	2023.0	1628.3	1354.7	1102.8	896.5	815.2
20°	4770.0	4635.1	4234.5	3187.3	2340.4	1759.2	1320.9	983.8	745.7	658.5	612.9
22.5°	5246.0	5172.7	4666.9	3344.0	2227.3	1525.2	991.7	662.4	557.3	541.4	511.7
25°	6152.4	5932.3	5327.4	3627.6	2140.1	1305.0	747.8	533.5	472.1	460.2	464.1
27.5°	6691.9	6507.4	5938.3	3816.0	2042.8	1136.4	632.7	489.9	448.3	422.4	412.6
30°	7209.6	6995.4	6241.7	3927.1	1834.6	958.0	561.3	470.0	460.2	422.4	410.5
32.5°	7608.3	7398.0	6680.0	4093.7	1749.4	842.9	462.1	366.9	341.2	337.2	372.9
35°	8219.2	7995.0	7054.9	4184.9	1683.9	783.5	400.7	327.3	297.5	285.6	287.6
37.5°	8788.3	8635.6	7401.9	4220.6	1614.5	765.6	359.0	293.5	267.8	259.8	257.8
40°	9264.4	8923.2	7731.2	4258.3	1584.7	731.9	333.2	267.8	249.9	238.0	238.0
42.5°	9482.5	9135.4	8100.1	4236.5	1576.8	678.3	333.2	245.9	232.1	220.2	218.1
45°	9434.9	9294.1	8264.7	4226.6	1576.8	624.8	303.5	240.0	220.2	204.3	200.3
47.5°	9557.9	9373.4	8471.0	4268.2	1545.0	587.1	255.9	251.9	208.3	188.4	184.5
50°	9579.7	9615.4	8830.0	4484.4	1475.6	539.5	200.3	247.9	200.3	170.5	166.6
52°	9722.5	9500.4	8939.1	4599.4	1402.3	503.8	168.6	212.2	192.4	158.6	154.7
52.5°	9526.1	9671.0	8964.9	4641.1	1410.2	480.0	162.6	208.3	188.4	158.6	148.8
55°	9306.0	9444.9	8859.7	4730.3	1293.1	376.9	126.9	150.7	170.5	138.8	132.9
57.5°	8088.2	8229.0	7699.5	4331.7	1053.2	265.8	105.2	113.1	150.7	128.9	122.9
60°	7189.7	7088.6	6461.9	3613.7	747.8	148.8	83.3	87.3	164.6	119.0	117.1
62.5°	6570.9	6354.7	5400.7	2790.6	456.2	99.2	65.5	67.4	126.9	111.1	111.1
65°	4861.3	4619.3	3587.9	1687.8	224.1	69.5	49.6	53.6	79.3	95.2	95.2
67.5°	2774.7	2681.5	1733.5	761.6	93.3	43.6	37.7	41.7	61.5	77.4	73.4
70°	1275.4	1144.4	666.4	160.7	43.6	29.8	29.8	33.7	49.6	57.6	53.6
72.5°	372.9	353.1	162.6	25.8	17.9	17.9	19.8	25.8	37.7	43.6	39.7
75°	27.8	17.9	11.9	7.9	7.9	11.9	15.9	25.8	37.7	41.7	33.7
77.5°	2.0	4.0	2.0	2.0	6.0	11.9	17.9	31.7	49.6	51.6	37.7
80°	2.0	2.0	0.0	2.0	6.0	11.9	19.8	35.7	55.5	59.5	31.7
82.5°	0.0	0.0	0.0	2.0	7.9	15.9	23.8	37.7	51.6	63.5	33.7
85°	0.0	0.0	0.0	2.0	11.9	21.8	27.8	9.9	6.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5
2.5°	4264.3	4212.7	4192.9	4210.7	4204.8	4198.8	4307.9	4284.1	4280.1	4315.8	4307.9
5°	3201.1	3109.9	3359.9	3258.7	3363.8	3427.3	3439.2	3445.1	3518.5	3441.1	3542.3
7.5°	2280.9	2304.7	2302.7	2370.1	2491.1	2598.2	2661.7	2612.1	2608.2	2598.2	2554.6
10°	1822.7	1781.1	1773.1	1757.3	1794.9	1886.2	1963.5	1902.1	1858.5	1918.0	1900.1
12.5°	1489.5	1432.0	1400.2	1336.8	1338.8	1400.2	1400.2	1400.2	1443.9	1477.6	1503.4
15°	1142.4	1094.8	1094.8	1031.4	1017.5	1019.5	1051.2	1055.2	1124.5	1144.4	1154.3
17.5°	799.3	773.5	803.3	829.0	813.2	817.1	829.0	833.0	842.9	835.0	854.8
20°	614.8	610.9	618.8	664.5	698.1	718.0	704.1	684.3	672.4	644.6	644.6
22.5°	521.6	529.5	543.5	581.1	624.8	636.7	620.8	575.2	539.5	535.5	537.5
25°	464.1	472.1	493.8	517.6	541.4	561.3	545.4	511.7	491.9	474.0	474.0
27.5°	428.4	432.4	444.3	462.1	481.9	497.8	491.9	474.0	452.2	444.3	426.4
30°	400.7	406.6	420.5	424.5	442.3	450.2	440.3	436.4	422.4	412.6	406.6
32.5°	386.7	384.8	394.7	398.6	400.7	406.6	394.7	400.7	398.6	382.8	376.9
35°	291.6	307.4	333.2	355.0	361.0	368.9	366.9	359.0	337.2	319.3	297.5
37.5°	261.8	271.7	285.6	303.5	327.3	337.2	333.2	313.4	287.6	275.7	271.7
40°	241.9	247.9	259.8	271.7	295.5	313.4	299.5	281.6	261.8	251.9	245.9
42.5°	224.1	226.1	232.1	244.0	261.8	289.6	265.8	241.9	234.0	228.1	224.1
45°	204.3	204.3	212.2	218.1	238.0	263.8	240.0	218.1	214.2	210.2	208.3
47.5°	188.4	190.4	194.3	202.3	218.1	236.0	220.2	202.3	192.4	190.4	186.4
50°	168.6	170.5	178.5	186.4	206.2	216.2	206.2	186.4	176.5	170.5	170.5
52°	152.7	158.6	166.6	182.4	196.4	212.2	200.3	178.5	166.6	160.7	156.7
52.5°	150.7	154.7	162.6	180.5	196.4	210.2	198.3	176.5	162.6	158.6	154.7
55°	134.8	140.8	154.7	176.5	194.3	210.2	194.3	174.5	154.7	144.8	140.8
57.5°	128.9	132.9	150.7	178.5	192.4	210.2	194.3	174.5	154.7	136.9	132.9
60°	122.9	130.9	150.7	172.6	190.4	212.2	196.4	172.6	150.7	128.9	128.9
62.5°	117.1	122.9	148.8	168.6	182.4	204.3	188.4	168.6	144.8	122.9	121.0
65°	101.2	111.1	130.9	140.8	156.7	176.5	160.7	146.7	126.9	109.1	107.1
67.5°	77.4	81.4	97.2	109.1	119.0	136.9	128.9	111.1	97.2	83.3	83.3
70°	53.6	57.6	69.5	75.4	85.3	95.2	89.3	75.4	65.5	57.6	55.5
72.5°	37.7	39.7	43.6	47.6	51.6	55.5	53.6	43.6	37.7	35.7	33.7
75°	29.8	33.7	35.7	33.7	31.7	29.8	29.8	25.8	21.8	19.8	19.8
77.5°	29.8	31.7	29.8	25.8	21.8	19.8	17.9	15.9	11.9	9.9	11.9
80°	25.8	25.8	25.8	21.8	19.8	17.9	15.9	13.9	11.9	9.9	9.9
82.5°	27.8	27.8	25.8	21.8	21.8	17.9	17.9	15.9	13.9	9.9	9.9
85°	0.0	0.0	0.0	4.0	9.9	17.9	17.9	15.9	13.9	11.9	11.9
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	7.9	9.9	11.9	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5
2.5°	4379.3	4454.6	4597.5	4740.3	4827.5	4930.7	5117.1	5216.3	5345.2	5408.7	5533.6
5°	3528.4	3707.0	3770.4	3933.0	4107.5	4282.1	4559.8	4865.2	5119.1	5293.6	5519.8
7.5°	2574.4	2616.1	2862.0	2971.1	3256.7	3574.1	3952.9	4337.7	4658.9	4944.6	5117.1
10°	1929.9	2082.5	2237.3	2445.5	2675.6	3002.8	3365.8	3790.3	4206.7	4492.4	4710.5
12.5°	1551.0	1672.0	1878.3	2102.4	2386.0	2602.2	2967.1	3387.6	3927.1	4206.7	4494.3
15°	1174.2	1328.8	1562.9	1794.9	2094.4	2322.5	2691.5	3221.0	3915.2	4300.0	4547.9
17.5°	870.7	975.9	1186.1	1445.9	1751.3	2072.6	2570.4	3203.2	4048.1	4506.2	4762.1
20°	666.4	702.1	835.0	1067.1	1398.3	1818.8	2374.1	3280.5	4440.8	5008.1	5267.9
22.5°	539.5	555.4	606.9	767.6	1088.8	1596.6	2280.9	3334.1	4883.1	5609.0	5956.1
25°	470.0	466.1	499.8	569.2	850.9	1388.3	2161.9	3536.3	5424.5	6315.1	6626.5
27.5°	428.4	428.4	444.3	493.8	706.1	1253.5	2086.5	3681.1	5970.0	6935.9	7104.5
30°	406.6	410.5	456.2	472.1	587.1	1092.8	1961.6	3827.9	6491.6	7332.6	7564.6
32.5°	376.9	361.0	351.1	390.7	493.8	948.1	1836.6	3889.4	6914.0	7818.5	8016.8
35°	289.6	281.6	293.5	323.3	424.5	825.0	1697.8	3958.8	7400.0	8381.8	8421.4
37.5°	261.8	259.8	267.8	293.5	357.0	718.0	1598.6	3941.0	7770.9	8847.8	8740.8
40°	241.9	241.9	247.9	269.7	319.3	642.6	1495.5	3925.1	8129.9	9371.5	9058.1
42.5°	226.1	226.1	236.0	249.9	303.5	593.0	1418.1	3903.3	8431.3	9692.8	9244.6
45°	204.3	210.2	226.1	240.0	307.4	559.3	1360.6	3820.0	8534.5	9688.8	9155.3
47.5°	188.4	196.4	212.2	232.1	277.7	549.4	1320.9	3746.6	8498.8	9450.8	8875.6
50°	170.5	180.5	202.3	236.0	236.0	529.5	1279.3	3812.0	8473.0	9266.3	8607.8
52°	158.6	166.6	194.3	230.0	206.2	487.9	1253.5	3939.0	8578.1	9242.5	8488.9
52.5°	156.7	162.6	188.4	226.1	196.4	480.0	1235.7	3968.7	8611.8	9183.0	8570.2
55°	138.8	146.7	172.6	176.5	160.7	394.7	1178.1	4036.2	8445.2	9066.0	8492.8
57.5°	130.9	134.8	152.7	144.8	138.8	297.5	1013.5	3931.1	7501.1	8052.5	7901.8
60°	121.0	125.0	142.8	113.1	117.1	208.3	761.6	3413.4	6023.5	6709.8	6981.5
62.5°	117.1	115.0	134.8	91.2	99.2	150.7	537.5	2774.7	4641.1	5523.7	5993.8
65°	103.1	101.2	97.2	77.4	85.3	117.1	321.3	1810.8	3270.6	4178.9	4436.8
67.5°	79.3	83.3	71.4	61.5	71.4	91.2	178.5	811.2	1715.6	2507.0	2715.2
70°	55.5	59.5	57.6	53.6	63.5	75.4	103.1	277.7	710.0	1316.9	1451.8
72.5°	33.7	41.7	43.6	45.6	55.5	65.5	73.4	89.3	188.4	466.1	579.2
75°	19.8	27.8	33.7	39.7	45.6	55.5	61.5	63.5	65.5	87.3	140.8
77.5°	13.9	19.8	29.8	37.7	45.6	55.5	65.5	69.5	65.5	61.5	65.5
80°	11.9	19.8	27.8	35.7	47.6	57.6	65.5	65.5	63.5	55.5	59.5
82.5°	11.9	19.8	29.8	37.7	45.6	55.5	63.5	65.5	59.5	55.5	57.6
85°	13.9	21.8	31.7	39.7	49.6	45.6	41.7	33.7	31.7	25.8	27.8
87.5°	13.9	19.8	19.8	21.8	23.8	23.8	23.8	21.8	17.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647338

CATALOG NUMBER: GALN-SA3D-835-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5	5069.5
2.5°	5539.6	5698.3	5692.3	5696.2	5672.4	5511.8	5434.5	5238.1	5293.6	5269.8
5°	5751.8	5908.5	6043.4	6027.5	5845.0	5626.9	5303.6	4998.1	4914.8	4791.9
7.5°	5539.6	5916.4	6041.4	6023.5	5753.8	5474.1	4958.4	4653.0	4508.2	4426.9
10°	5202.4	5638.8	5793.4	5825.2	5642.7	5218.3	4744.3	4254.4	4177.0	4036.2
12.5°	5010.0	5327.4	5422.6	5507.9	5444.4	5127.0	4581.6	4111.5	4004.4	3911.2
15°	4853.3	5041.7	5081.4	5178.6	5216.3	5045.7	4666.9	4266.3	4002.5	3992.5
17.5°	4998.1	4920.8	4776.0	4805.7	4924.8	5047.7	4887.0	4571.7	4315.8	4284.1
20°	5238.1	4897.0	4569.7	4643.1	4742.2	5119.1	5220.3	4998.1	4851.3	4770.0
22.5°	5513.8	4938.6	4504.3	4540.0	4728.4	5279.8	5759.7	5636.7	5363.1	5246.0
25°	6023.5	5053.6	4555.8	4579.6	4837.5	5503.9	6247.6	6338.9	6176.2	6152.4
27.5°	6521.4	5351.2	4668.9	4615.3	4893.0	5722.1	6543.1	7033.1	6747.4	6691.9
30°	6775.2	5593.1	4837.5	4746.2	5123.1	5855.0	6721.7	7485.2	7235.4	7209.6
32.5°	7164.0	5813.3	4968.4	4851.3	5252.0	6019.5	7054.9	7979.2	7737.1	7608.3
35°	7326.6	6053.3	5256.0	5119.1	5620.9	6249.6	7225.4	8419.4	8344.0	8219.2
37.5°	7640.0	6311.1	5595.1	5587.2	6067.2	6549.1	7532.9	9018.4	9004.6	8788.3
40°	7665.7	6592.8	6130.7	6380.5	6757.4	7070.7	7802.6	9185.1	9411.1	9264.4
42.5°	7705.4	7086.6	7056.9	7263.1	7586.4	7519.0	7812.5	9224.7	9569.8	9482.5
45°	7723.3	7580.5	7999.0	8379.7	8514.7	8106.1	7719.3	9149.4	9653.1	9434.9
47.5°	7580.5	8004.9	8760.6	9496.4	9536.1	8467.0	7679.7	9072.0	9702.7	9557.9
50°	7600.3	8270.7	9419.1	10077.5	9932.7	8786.4	7618.1	9024.4	9676.9	9579.7
52°	7552.7	8276.6	9512.3	10065.6	9964.5	8609.9	7513.0	8841.9	9653.1	9722.5
52.5°	7606.3	8240.9	9415.1	10073.6	9942.7	8697.1	7499.2	8943.0	9667.0	9526.1
55°	7421.8	7816.5	8845.9	9125.6	9105.7	7893.8	7072.8	8607.8	9304.0	9306.0
57.5°	6707.8	6775.2	6937.8	6931.9	6840.7	6206.0	6049.3	7915.7	8294.5	8088.2
60°	5910.5	4960.5	4522.1	4343.6	4242.5	4139.3	5351.2	7241.3	7277.0	7189.7
62.5°	5107.2	3439.2	2856.1	2806.5	2830.3	3207.1	5172.7	6973.6	6759.3	6570.9
65°	4121.5	2507.0	2074.6	2009.2	2241.2	2647.8	4186.9	5347.2	5017.9	4861.3
67.5°	2588.3	1828.7	1402.3	1279.3	1559.0	1822.7	2750.9	3359.9	2990.9	2774.7
70°	1535.1	1021.4	634.7	569.2	640.7	971.9	1541.1	1675.9	1386.4	1275.4
72.5°	604.9	374.8	176.5	150.7	156.7	341.2	567.3	553.3	418.5	372.9
75°	162.6	113.1	61.5	49.6	41.7	63.5	91.2	59.5	21.8	27.8
77.5°	75.4	67.4	53.6	41.7	31.7	23.8	11.9	4.0	4.0	2.0
80°	65.5	57.6	49.6	41.7	31.7	19.8	9.9	2.0	2.0	2.0
82.5°	61.5	53.6	45.6	37.7	29.8	19.8	9.9	2.0	0.0	0.0
85°	25.8	33.7	37.7	35.7	31.7	19.8	9.9	2.0	0.0	0.0
87.5°	13.9	11.9	9.9	7.9	6.0	4.0	4.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)